

**VALVE GUIDE GROOVING TOOL**

**ABSTRACT OF THE DISCLOSURE**

A tool for grooving an outer surface of a valve guide comprising a tool body, a tightening nut disposed about a portion of the tool body, one or more rollers rotatably mounted within a bushing, and a handle for rotating the one or more rollers of the tool about the outer surface of the valve guide, wherein the tool is capable of grooving the outer surface of the valve guide while the cylinder head is mounted to an engine. The grooves on the outer surface of the valve guide allow the valve stem seal to grip the valve guide more effectively, thereby improving the retention force on the valve guide. As a result, the movement of the valve stem seal is minimized. A method of using the tool is also described.

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